

Annual



Report

RIDOT TMC Incident Statistics 1/1/2012 To 12/31/2012

The Rhode Island transportation system serves 39 cities and towns, encompassing urban, suburban, and tourism areas. The Rhode Island Department of Transportation's Transportation Management Center (RIDOT TMC) has been addressing the problem of increasing congestion in Rhode Island by informing the traveler of crashes and unusual delays. In doing so, the TMC has provided measurable benefits to the transportation system, and has developed the technology and institutional awareness necessary to expand the Intelligent Transportation Systems (ITS) Program (called RhodeWays) to the benefit of Rhode Island travelers.

The RIDOT TMC maintains detailed statistics on incidents that we manage from our center. Because the data are entered by our TMC Operators, the statistics are dependent on what we can observe on the roadways with our equipment. Review and compilation of these statistics is done quarterly. By making these statistics available to you, we hope that you can learn more about the program and understand the benefit of the services we provide to the Rhode Island motoring public.

The types of incidents tabulated in this report include disabled vehicles, debris on the roadway, emergency roadwork, vehicle accidents, and vehicle rollovers. Additionally, a category exists for congestion delays that are outside of typical recurring congestion. The TMC does assist in information dissemination for planned events (such as construction) as well, but those types of events are not included in the statistics. Also, abandoned vehicles are not included since they tend to skew the statistics.

We hope you find this report interesting and that it helps in understanding the significant benefit that the RhodeWays program provides to the people who travel Rhode Island's roadways every day. Also, please remember to check the TMC website frequently for updates (<http://www.tmc.state.ri.us>), including construction and incident information, and highway camera images.

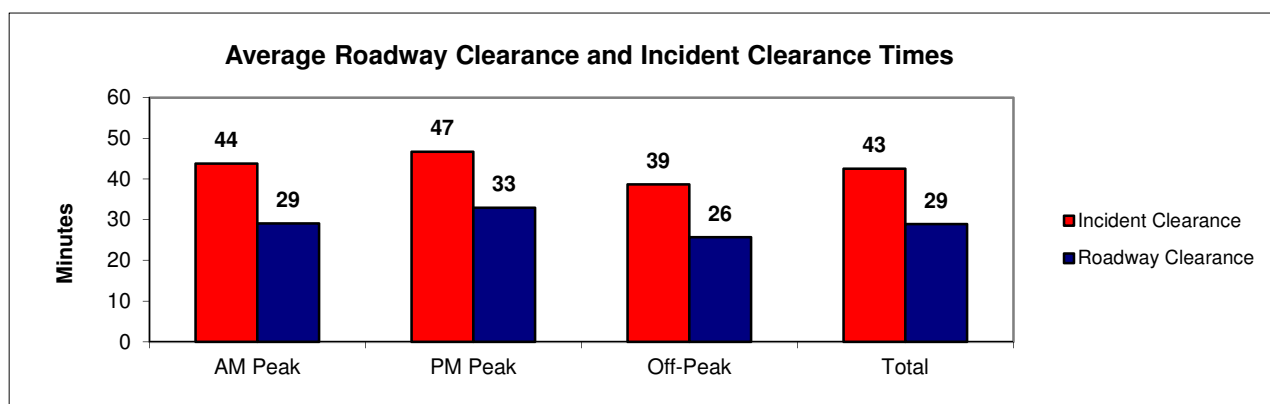
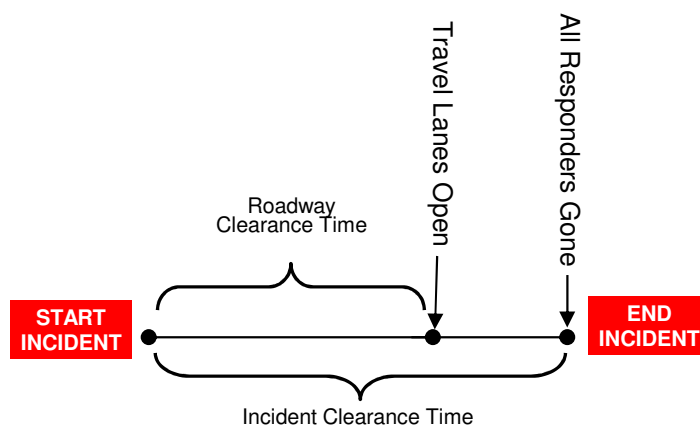
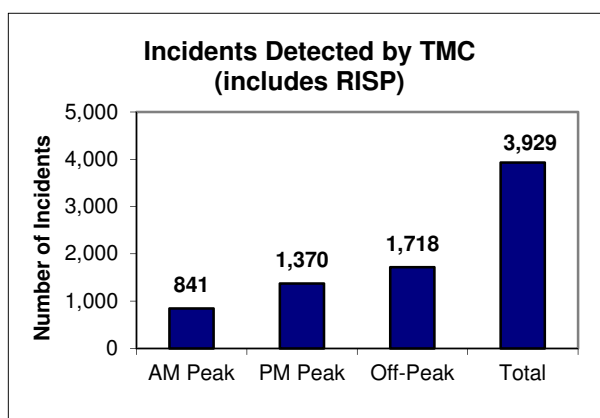
RIDOT TMC Incident Statistics Report

1. Peak Period Incident Statistics*

	AM Peak	PM Peak	Off-Peak	Total
Number of Incidents	863	1396	1770	4029
Avg. Incident Clearance Time (min)	44	47	39	43
Avg. Roadway Clearance Time (min)	29	33	26	29
# Detected by TMC Operators	541	337	657	1535
# Detected by State Police (RISP)	300	1033	1061	2394
# Notified by RhodeWatchers	0	1	1	2
# Utilizing VMS	46	117	226	389
# Utilizing DMS	214	424	622	1260
# Utilizing HAR	172	165	351	688
# Posted to Web	813	1351	1605	3769
Avg. Delay Cost**	\$185,296	\$197,468	\$163,469	\$179,925
Total Delay Cost	\$159,910,846	\$275,664,753	\$289,340,314	\$724,915,913

* AM Peak: 6:00AM to 10:00 AM, PM Peak: 3:00PM to 7:00PM, Monday - Friday

** Delay Cost is a function of incident duration, volume on the roadway, delay per person, and cost per hour of delay for both commercial and personal vehicles. Average delay cost includes only incidents with a lane blockage and represents average cost per incident.



Note: Statistics in this report are only for incidents that the TMC reported or responded to during the year. They do not include all incidents that occurred on Rhode Island roadways.

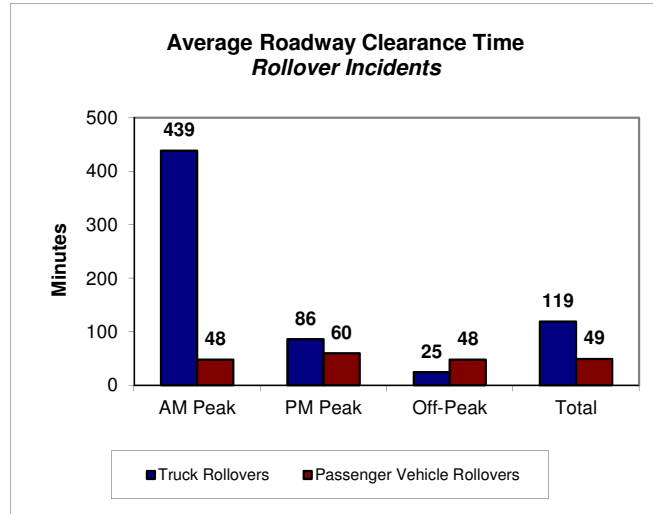
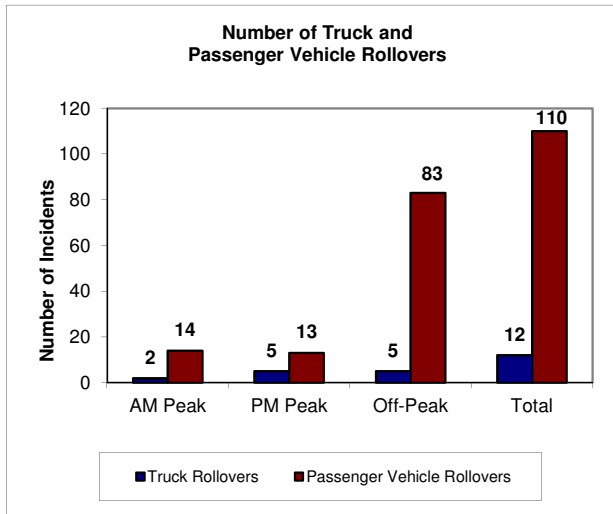
Incident Clearance Time is the time from the start of an incident (or when it is detected) to the time when responders leave the scene and/or the incident is declared as cleared.

Roadway Clearance Time is the time from the start of an incident (or when it is detected) to the time when all travel lanes are available for traffic.

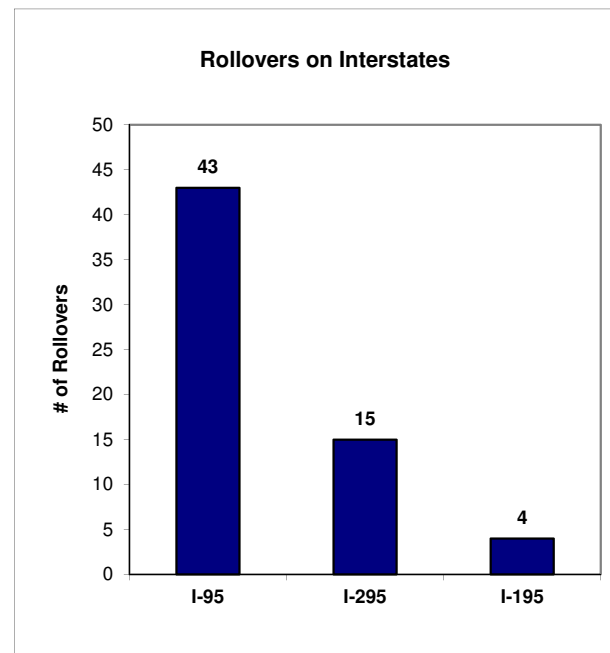
2. Rollover Incident Statistics*

VEHICLES	Trucks				Automobiles			
	AM Peak	PM Peak	Off-Peak	Total	AM Peak	PM Peak	Off-Peak	Total
No. of Rollovers	2	5	5	12	14	13	83	110
Avg. Incident Clearance (min)	439	86	25	120	54	60	53	54
Avg. Roadway Clearance (min)	439	86	25	119	48	60	48	49

* AM Peak: 6:00AM to 10:00 AM, PM Peak: 3:00PM to 7:00PM, Monday - Friday



Roadway	Exit Number	Number Of Rollovers
Interstate 95 Northbound	22C	1
Interstate 95 Northbound	30	2
Interstate 95 Northbound	18	3
Interstate 95 Northbound	24	3
Interstate 95 Northbound	29	3
Interstate 95 Northbound	1	1
Interstate 95 Northbound	6A	2
Interstate 95 Northbound	5A	1
Interstate 95 Northbound	7	2
Interstate 95 Northbound	16	1
Interstate 95 Northbound	8B	1
Interstate 95 Northbound	28	1
Interstate 95 Southbound	6A	1
Interstate 95 Southbound	22B	1
Interstate 95 Southbound	23	1
Interstate 95 Southbound	13	3
Interstate 95 Southbound	17	1
Interstate 95 Southbound	6	1
Interstate 95 Southbound	1	2
Interstate 95 Southbound	29	3
Interstate 95 Southbound	5B	1
Interstate 95 Southbound	5A	2
Interstate 95 Southbound	20	1
Interstate 95 Southbound	21	1
Interstate 95 Southbound	8	1
Interstate 95 Southbound	4	1
Interstate 95 Southbound	25	2
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<i>Interstate 195 Eastbound</i>	8	1
<i>Interstate 195 Eastbound</i>	5	1
<i>Interstate 195 Eastbound</i>	2	1
<i>Interstate 195 Westbound</i>	6	1
<i>Interstate 295 Northbound</i>	4	1
<i>Interstate 295 Northbound</i>	7B	2
<i>Interstate 295 Northbound</i>	2	1
<i>Interstate 295 Southbound</i>	8B	1
<i>Interstate 295 Southbound</i>	7A	1
<i>Interstate 295 Southbound</i>	3A	1
<i>Interstate 295 Southbound</i>	11	1
<i>Interstate 295 Southbound</i>	6	4
<i>Interstate 295 Southbound</i>	7B	2
<i>Interstate 295 Southbound</i>	1	1
<i>Airport Connector Eastbound</i>	N/A	1
<i>Airport Connector Westbound</i>	N/A	1
<i>Route 001 Northbound</i>	N/A	2
<i>Route 004 Northbound</i>	N/A	1
<i>Route 004 Northbound</i>	8	1
<i>Route 006 Eastbound</i>	N/A	5
<i>Route 006 Westbound</i>	N/A	4
<i>Route 006/10 Northbound</i>	N/A	1
<i>Route 006/10 Southbound</i>	N/A	1
<i>Route 007 Northbound</i>	N/A	1
<i>Route 010 Northbound</i>	N/A	4
<i>Route 010 Southbound</i>	N/A	4
<i>Route 014 Westbound</i>	N/A	1
<i>Route 024 Southbound</i>	3	1
<i>Route 037 Eastbound</i>	N/A	1
<i>Route 037 Eastbound</i>	4B	1
<i>Route 037 Eastbound</i>	5A	1
<i>Route 037 Westbound</i>	4B	1
<i>Route 037 Westbound</i>	1A	1
<i>Route 044 Eastbound</i>	N/A	1
<i>Route 078 Westbound</i>	5	1
<i>Route 099 Northbound</i>	N/A	2
<i>Route 102 Westbound</i>	N/A	2
<i>Route 114 Northbound</i>	N/A	1
<i>Route 114 Southbound</i>	N/A	1
<i>Route 117 Eastbound</i>	N/A	1
<i>Route 126 Northbound</i>	N/A	1
<i>Route 138 Eastbound</i>	N/A	1
<i>Route 138 Westbound</i>	N/A	1
<i>Route 146 Northbound</i>	N/A	8
<i>Route 146 Southbound</i>	N/A	5
<i>Route 165 Southbound</i>	N/A	1
<i>Route 401 Eastbound</i>	N/A	1
TOTAL		122

3. Incidents by Severity Level

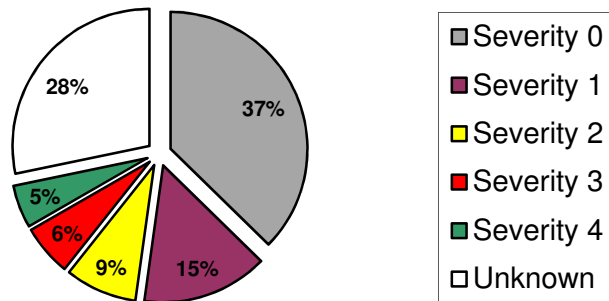
Severity Level*	No. of Incidents
Severity 0	1503
Severity 1	600
Severity 2	342
Severity 3	242
Severity 4	204
Unknown	1138
Total	4029

Number of Incidents with a Secondary Incident:

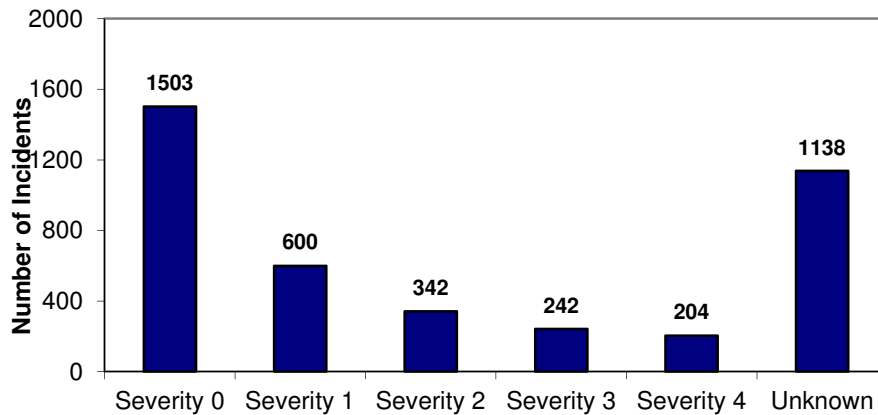
Percentage of Incidents with a Secondary Incident:

Note: A "secondary" incident is one that is the result of an earlier incident.

Percent of Incidents by Severity Level



Number of Incidents by Severity Level



*Definition of Incident Severity Levels:

Severity 0: No injuries and no travel lanes blocked

Severity 1: 1/4+ travel lanes blocked with no injuries OR median/shoulder closed with injuries

Severity 2: 1/3 or 2/4+ lanes blocked OR Fire w/ 0 lanes closed OR hazardous materials (HAZMAT) w/ 0 lanes closed

Severity 3: 1/2 or 2/3 or 3/4+ lanes blocked OR Fire w/ 1/3 or 2/4 lanes closed OR Hazmat w/ 2/4 lanes closed

Severity 4: All travel lanes blocked OR fatality OR Hazmat w/ clean-up OR Fire w/ 1/2, 2/3, 3/4 lanes closed OR Structural damage w/ 1/3, 2/3+ lanes closed

Unknown: Incidents without a recorded severity level

Note: For travel lanes blocked terminology, "1/4" indicates 1 out of 4 lanes blocked

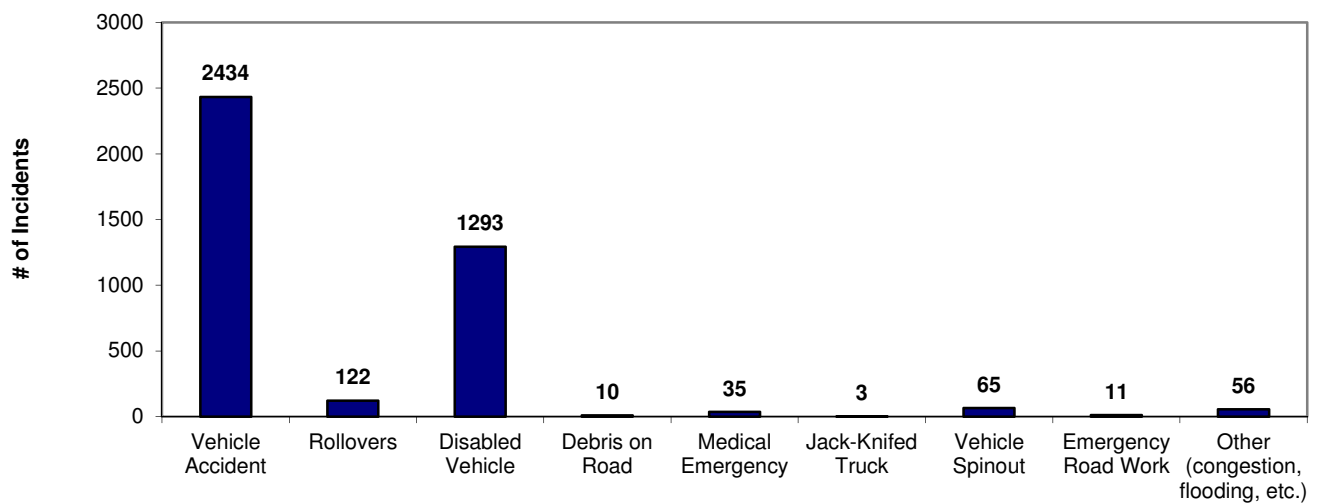
4. Incidents by Type

Incident Type	No. of Incidents
Vehicle Accident	2434
Rollovers	122
Disabled Vehicle	1293
Debris on Road	10
Medical Emergency	35
Jack-Knifed Truck	3
Vehicle Spinout	65
Emergency Road Work	11
Other (congestion, flooding, etc.)	56
Total Number of Incidents	4029

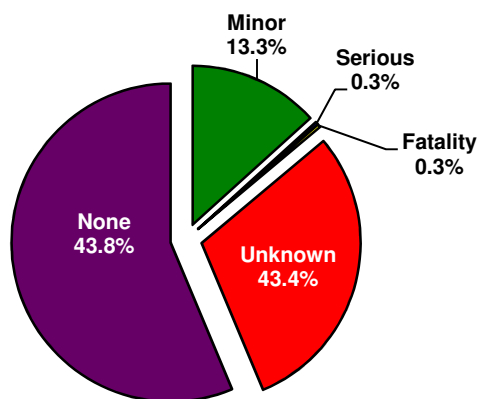
5. Incidents by Injury Type

Injury Type	No. of Incidents
Minor	535
Serious	12
Fatality	13
Unknown	1200
None	2269
Total	4029

Number of Incidents by Type



Percent of Incidents by Injury Type



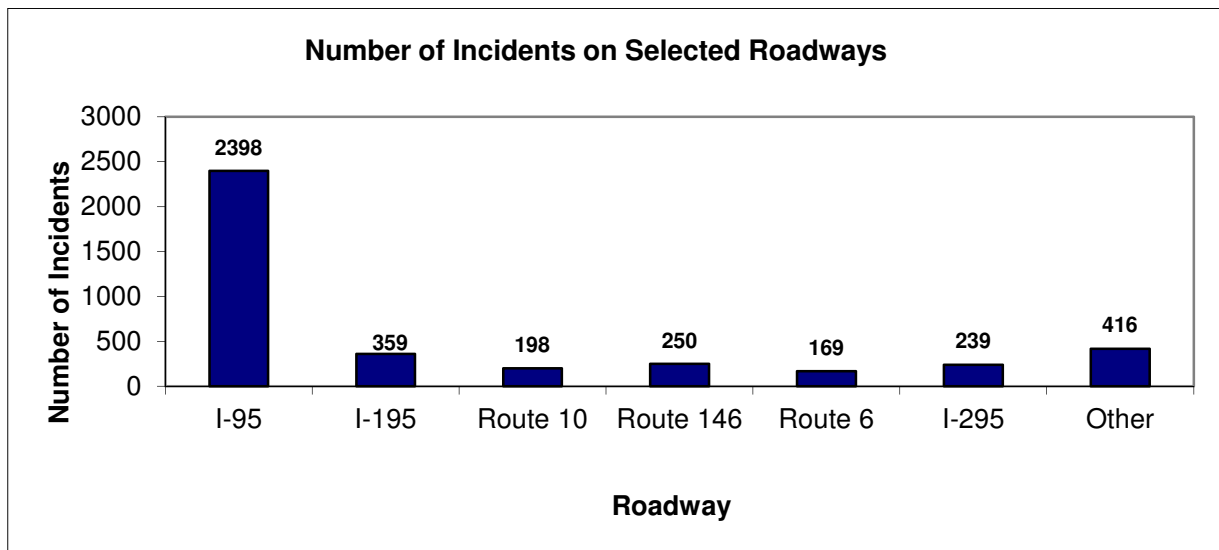
6. Incidents by Pavement and Weather Conditions

Pavement Condition	No. of Incidents
Dry	3136
Wet	778
Icy	22
Snow-Covered	91
Flooded	2
Other	0
<i>Total</i>	<i>4029</i>
Precipitation	
None	3317
Light-moderate rain falling	548
Heavy rain falling	61
Light-moderate sleet falling	1
Heavy sleet falling	2
Light-moderate snow falling	60
Heavy snow falling	40
<i>Total</i>	<i>4029</i>
Wind	
Calm to Moderate	3935
Moderate to Strong	81
Gusts over 50 mph	3
Gusts over 75 mph	0
Hurricane	0
Other	0
N/A	10
<i>Total</i>	<i>4029</i>
Visibility	
Clear	3374
Light fog	38
Dense fog	14
Reduced- rain	472
Reduced-snow	71
Poor-heavy rain/sleet	10
Poor-heavy snow	29
Reduced-smoke	1
Other	0
N/A	20
<i>Total</i>	<i>4029</i>

7. Incidents Detected by Primary Notifier on Selected Roadways

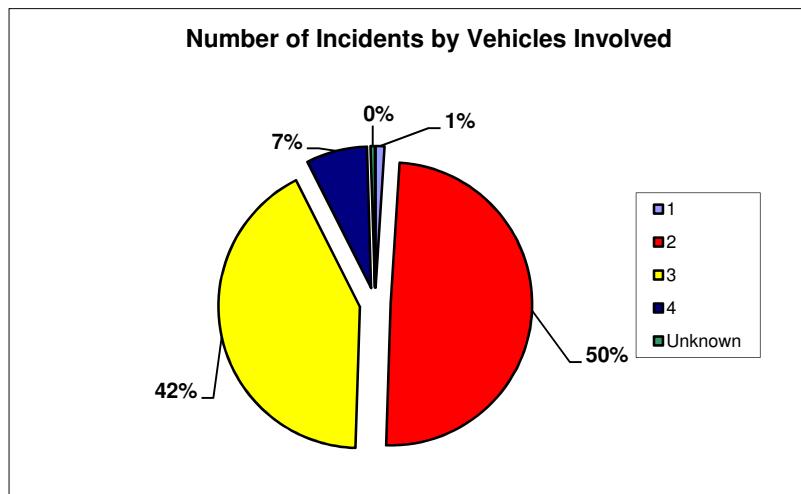
Roadway	Primary Notifier	No. of Incidents
I-195	TMC Operator	151
	State Police Scanner	191
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	17
	Total	359
I-95	TMC Operator	1014
	State Police Scanner	1234
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	1
	Other	149
	Total	2398
I-295	TMC Operator	73
	State Police Scanner	136
	Local Fire Department	0
	Rhode Watcher	2
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	28
	Total	239

Roadway	Primary Notifier	No. of Incidents
Route 10	TMC Operator	61
	State Police Scanner	121
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	16
	Total	198
Route 146	TMC Operator	76
	State Police Scanner	150
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	24
	Total	250
Route 6	TMC Operator	73
	State Police Scanner	83
	Local Fire Department	1
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	12
	Total	169



8. Incidents by Number of Vehicles Involved

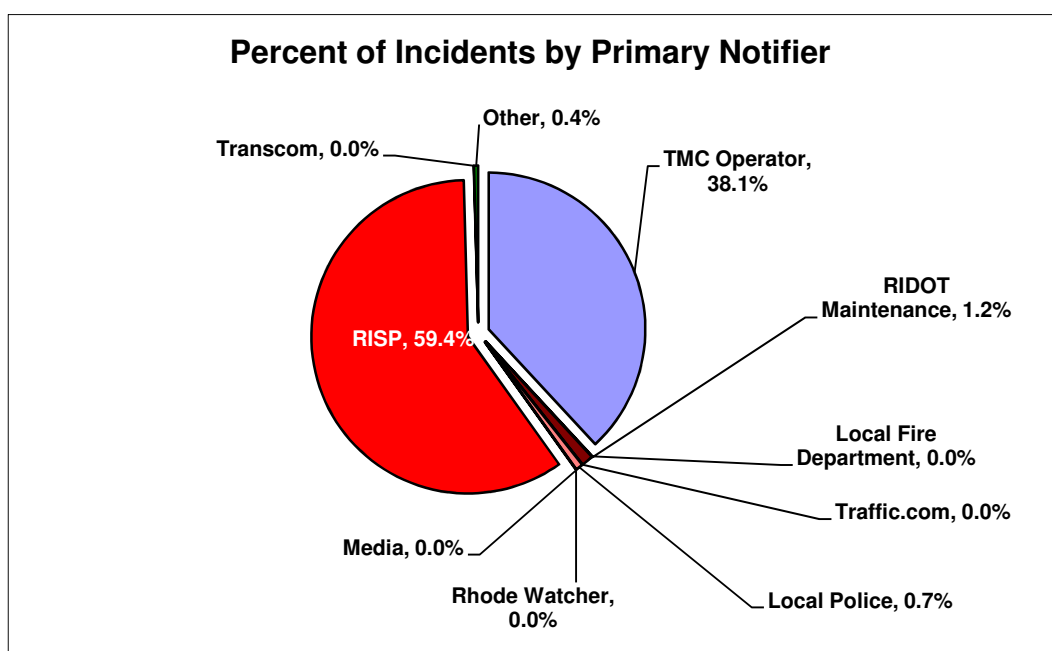
No. of Vehicles Involved	No. of Incidents
1	40
2	1947
3	1654
4	274
5	65
6	21
7	5
8	2
9	1
10+	1
Unknown	19
Total Incidents	4029



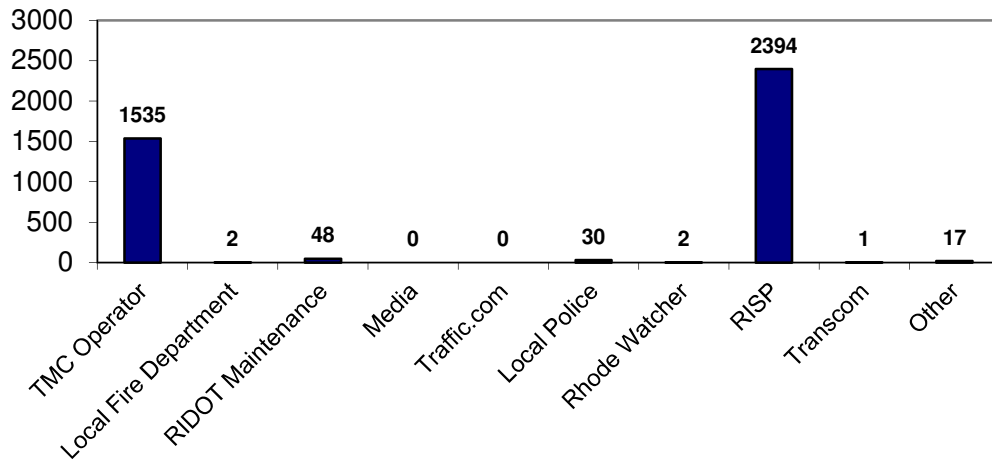
9. Incident Notification

Primary Notifier*	No. of Incidents
TMC Operator	1535
Local Fire Department	2
RIDOT Maintenance	48
Media	0
Traffic.com	0
Local Police	30
Rhode Watcher	2
RISP	2394
Transcom	1
Other	17
Total	4029

*First notifier of the incident to TMC



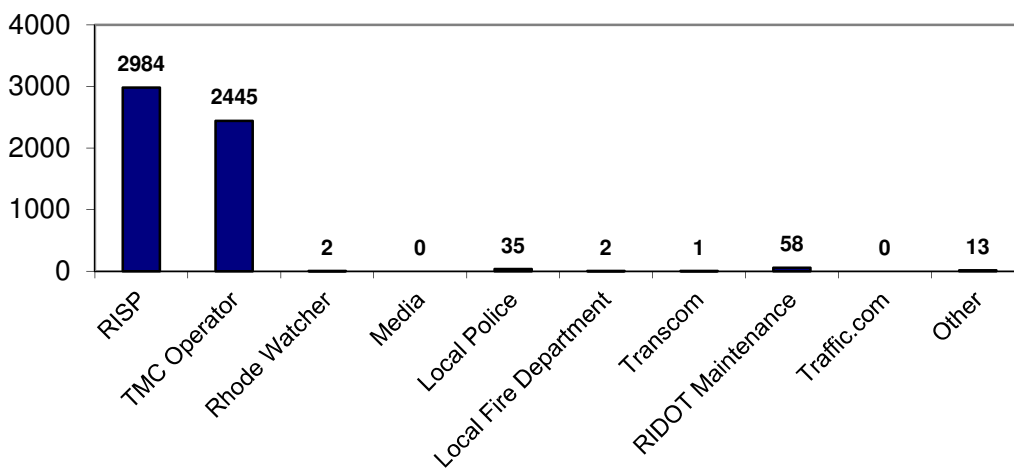
Number of Incidents by Primary Notifier



All Notifiers	No. of Incidents
RISP	2984
TMC Operator	2445
Rhode Watcher	2
Media	0
Local Police	35
Local Fire Department	2
Transcom	1
RIDOT Maintenance	58
Traffic.com	0
Other	13

Note: Primary notifier indicates the first notifier of the incident to the TMC. Additional notifiers are also logged, and are represented in the statistics for "all notifiers".

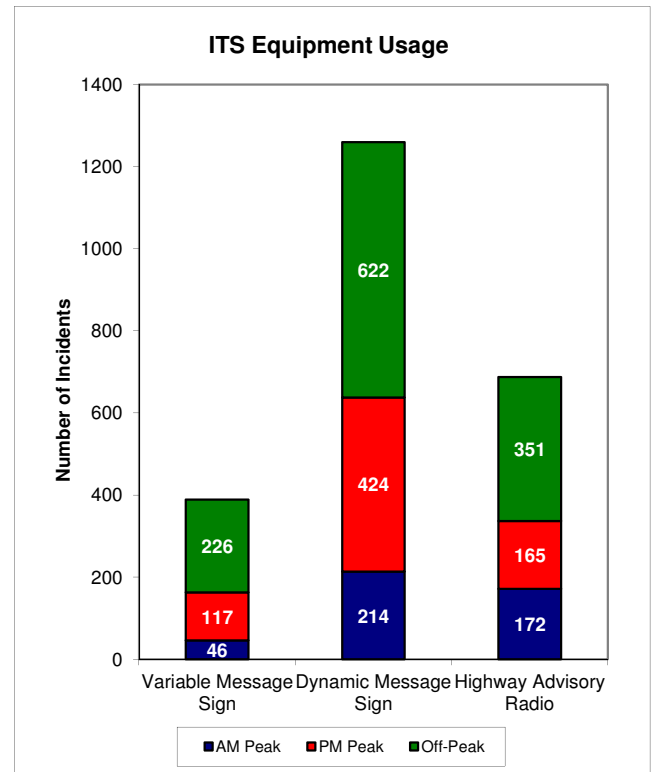
Number of Incidents by All Notifiers



10. Incident Response

On-Scene Responding Agency	No. of Incidents	% of Total Incidents
State Police	3470	86.13%
Tow	1487	36.91%
Local Fire Department	937	23.26%
EMS	899	22.31%
Local Police	220	5.46%
Service Patrol	32	0.79%
Mass Highway	1	0.02%
DOT	76	1.89%
Hazmat	0	0.00%
DEM	6	0.15%
Connecticut DOT	0	0.00%
Construction	11	0.27%
Coast Guard	0	0.00%
Department of Health	0	0.00%
K-9	1	0.02%
RIPTA	1	0.02%

	# of Incidents
# Utilizing (HAR,VMS or DMS)	1520
# Utilizing VMS	389
# Utilizing DMS	1260
# Utilizing HAR	688
# Posted to Web	3769



Note: Numbers and percentages in upper table indicate how many of the incidents during the month were responded to by the agency indicated. Note that multiple agencies may respond to an incident, so percentages do not add up to 100%.

